SECRET CLASCIFICATION Approved For Release 3000 0420 - CIA RDF 82 20457R014100380010-7 information report CD NO. COUNTRY Best Cormany/Austria DATE DISTR. 17 November 1952 SUBJECT Tube Production of the RFT Radio Plant in Erfurt NO. OF PAGES 25X1 PLACE NO. OF ENCLS. 4 (2 pages) ACQUIRED (LISTED BELOW) (I tube @) (1 chert @@) DATE OF SUPPLEMENT TO INFO. 25X1 REPORT NO. 7" DOCUMENT COSTAIRS INFORMATION AFFECTING THE MATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEARING OF TITLE 18, SECTIONS 739 AND 794, OF THE U.S. CODE, AS ASSEMBLED. 113 THANSMISSION OR REVEL ATION OF 115 CONTENTS TO OR RECEIP OF AM UMAUTHORIZED PRESON 15 PRODUMENTER BY GAMY THE REFROUEDTH OF THIS YORK IS FROMMITTED. THIS IS UNEVALUATED INFORMATION NOT CINCOLATE 25X1 1. HFT Plant in Erfurt (N 51/J 36) 25X1 25X1 25X1 2. The plant scheduled production of receiver tubes valued at the delivery price at 18,443,000 eastmarks in 1951, and 20,374,000 eastmarks in 1952. 3. In late 1951, the production of all kinds of tubes, except for the UEL-51 type and tubes of the Cnom series, was transferred from the Erfurt Radio Plant to the tube plant in Heuhaus. h. The 1952 production plan was altered several bimes as a result of starting production of the Chom series takes The various production sections were not informed about the plan until early 1952. According to this plan the plant will be fully occupied working in three shifts on the production of receiving tubes. 25X1 The capacity of the transmitter tube section was not fully utilized under 25X1 this program. The value of the 1952 escillograph tube production was planned to be 1,390,000 eastmarks at the delivery price, (2)

6. In 1951, the production waste of the E and U-series type tubes averaged 44 percent. Specifically 20 percent were due to bad emission, 3 percent to broken glass in the exhaust pump, 1 percent to waste in the socket workshop, 5 percent to genetrical defects of the tubes, 3 percent to gosing (sig). 3 percent to heater failures, 4 percent to short circuits, and 5 percent to various other defects. In order to overcore difficulties in the production of the Onom series tubes, it was planned to replace the Loktal-Socket by an 11-pin socket in which no guile pin was needed and the pump connection was to be fitted to the head of the bulb. During the period from 1 January to 29 Tebruary 1952, 900 EAA 171 type tubes were built in this manner, 700 of which failed at the pump. Only 15 of them passed the quality inspection on the test stand.

The frequent cracks in the sockets resulted from irregular supplies of glass and from duct pins being fitted tor close to the edge of the bulb.

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- 7. In early chrosoft 1992, Three Residues inspected the clant, they were objectly interorted in tube-measuring tables and forming frames. Incomer of the plant on segment
  said that the Residues planned to urchase recharical equipment for five her tube
  plants scheduled to be built in the U.--C. . Machines ordered by late obring,
  following this inspection, included 10 prid-notehing automatic volding rechines, 35
  measuring tables, 30 forming frames, 5 complete automatic rumps, five 20-km glow
  transmitters (Cluensonder), 5 scaling machines for receiver tubes, 2 amaking machines
  for transmitter tubes, and 5 automatic plate-presing machines, then the management
  of the plant stated that there could be a delay in the delivery of these machines
  because of a contract for delivery of measuring tables, forming frames, automatic
  pumps and scaling machines, which had been made after a Polish commission had visited the plant, the Polish contract was cancelled by the limistry for Tachine
  Construction. The effort radio works was to deliver the machines ordered to the
  U.S.S.R. within three years.
- 3. There was a serious shortage of mickel for cathodes. A total of 50,000 small cathode tubes per month were sumplied by the VERRET Tube Plant in Neuhaus. Sinc impurities in nickel iron were removed through a process using hydrogen vapors at 1,000 centigrade. The comper used for the orid struts was not of the required purity and caused considerable waste by poisoning the cathodes. Therefore, the comper was to be replaced by nickel. The comper wrapped wire received from the RET Derlin Incondescent Lamp Flant was of poor quality and lacked uniformity. The sumply was very irregular in late 1951. In February 1951, 150,000 sealing wires were delivered doily. Class sumplied by the Spezialglaswork Einheit in leisswasser (0 52/A 74) varied widely in quality and caused serious reduction difficulties.
- 9. P-2 iron was recurred illegally from East Derlin through the agents Schmidt (fnu) and Kunkel (fnu). A consistment of 250 kg arrived at the plant in late February 1952. The first samples of rolled P-2 from rade by the Stoel and dolling Mill in Hettstedt (Y 52/D 64) marc resolved in February 1952. They proved too hard, and a second sample lot was too thick. The Arrico iron sheets produced from the Hettstedt firm were designated CK-10Al. The copper sheets produced from Hettstedt for clasing purposes scaled considerably because of a high percentage of phosphorus and, therefore, equaed waste in the reduction of the RS-255, RS-261 and RS-721 transmitter tubes.

  Nolybdenum sheets were obtained from an Austrian retal plant in Reutte, Tyrol. (\*)
- Thorius-plated lew-quality tungsten wire was procured from the RTT Terlin Incandescent Bulb Plant and from Hungary, Spall quantities of good quality wire of this kind were obtained from the U.S.A. via Switzerland. Sufficient quantities of good-quality stamped mice were procured through a Kr. Tietze (fnu) who lived in Cost Berlin. Pump oil has not been obtained a from lest Germany since December 1951. The pump oil, which was procured from Luetzkendorf, could be used only after it had been recentedly fractionated at the plant and was also used by the RFT Incandescent Lemp Plant in Berlin.

Toybdenum and tungsten are groduced by the wetallwork Flanses (Flanses Tetal Torks) in Reutte, Tyrol (M 48/0 28).

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Production of Receiver Tubes at the HFT Redic Torks in Frant.

on the second of the second of the second	Production Supta for 1951	Tube Components Completed in 1951	Pirst Quality Tubes Produced in 1951	Second Quality Tubes Freduced in 1951	Production Quota for 1952
EF 172	20,000 3,750				03,000
F 17L NF 175	7,500 3,750				10,500
UF 172 UF 173	3,750				29,500
UF 174	3,750 3,750				
UF 175 NDF 171	3,750 11,200				22 <b>,</b> 500
UBF 171 ECH 171	10,000 11,250				76,500
UCH 171 USL 171	10,000 3,750		·		73,500 76,500
ULL 171 EL 171	3,150 11,250				2,000 36,000
UL 171	3,750 7,500	2,,780			23,000 3.0,000
UL 172	3,75°				
U" 171	7,500 7,500		•		୧୪ <sub>୬</sub> ୦୦ <b>୦</b> ୧୦୦
EAA 171 UAA 171	<b>3,</b> 750 3 <b>,</b> 750				11,400
EF 11 EF 12	90,000 130,000	162,010 159,900	<b>113,</b> 710 99,070	2,560 × ×	79,,000
FF 12 K	55,0 <b>0</b> 0	5 <b>5</b> ,350	M, 700	koo	2,500 11,500
W 11 VF 11	20,000 160,000	୍ 2ଟି,୪୧୦	21,040 246,690	230 2,210	9,000 175,000
UNF 11 SON 11	210,000 160,000	383,000 364,010	-252,200 2 <b>60,95</b> 0	5,920 14,770	150,000 266,000
UCH 11 UEL 51	215,000	4 <b>26</b>	262_600 211_2290	8,620 5,270	180,000
exx 13 er pot	10,000 7,500	3,090 12,630	140 5,240	7	240,000 500
ez 11 erc 5	15,000 4,000	21,880 10,360	16,710	22	3 <u>,</u> 200
ID 1	16,000 5,000	11,910 2,360	1,360 1,310	70 270	5,500 1,000
UCL 11		2 3 300	1,070 1,130	710	4 <b>998.</b> 47 10313
and in	h,000	11,350	6,180 6,180	900 710	es.
Approxi-	i entre entr	MATERIAL MATERIAL CONTINUES CONTINUES CONTINUES CONTINUES CONTINUES CONTINUES CONTINUES CONTINUES CONTINUES CO	Period Basel American Composition (1955) — Live The American Hoper Basel (1956) — Live The American Composition (1956) — Live The Ameri	. Tippe of contracts in the comment declary concludes the december $x_{i+1} \in X_i$ . As	Photoscore in any Company (1915) and
mate	1,250,000 2,	.415,000	1,455,000	53,000 i	,600,000

Note. TF 12 F tubes are non-microphonic EF-12-type tabes for microphones.

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1952 Production Schedule for Transmitter and Oscillograph Tubes

## Transmitter Tubes.

Туре	First Jaurber	Second Quarter	eduled for 1 Third Quarter	Fourth Juarter	Total	
CRO OL Tes Ol	225	700	300	175	400 500	(MDA Arrive) - not ( <b>MBER) references agr. A</b> - ・
SRL 05	62	53 	63	52 50	250 50	
TRS 09 35 207	125	137 327	225 125	50 50 <b>12</b> 5	500 500	
RV 216 RS 255 RS 261		23	19 7 12	51	70 30	
RV 271 B. RS 202	3.3	mpa mpa	- See Barge	23 200	€0 200 300	
RS 391	175	1.75 200	<b>S</b> 00 T.12	1.75	700 归o	
Grand Total	POTENT AND A TOMOSTOPHINALLY CHATTAGE A	* ** ** ** ** ** ** ** ** ** ** ** ** *	continue ( ) ( ) ( ) is a suivaged inferior	Committee of the commit	14,000	in the latter twee eventual discovering
Oscillogram T	ubes :		. ,			
OR 1/60/0.5 CR 1/100/2	250 250		63	350	1,,300	
OR 1/100/2 OR 1/100/2	150	150		160 160	500 610	
OR 2/100/2 OR 2/100/2/6	150 40	2.c.,	150	400 100	1,000 550	
02 2/160/2 TT 2/160/2/6	101 101 103	30 30 <b>250</b>	250	250	70 20 	
					-	•

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